

Curriculum vitae



Matthias Mann

TITLE Prof. Dr. rer. nat. Dr. Dr. h.c.
POSITION TITLE Director; Department of Proteomics and Signal Transduction,
Max-Planck-Institute of Biochemistry
BIRTHDATE 10/10/1959
CONTACT DETAILS Max Planck Institute of Biochemistry, Am Klopferspitz 18, 82152 Martinsried

Education:

- Georg August Universität Göttingen; B.A.; 1982; Physics, Mathematics
- Georg August Universität Göttingen; Master's Degree; 1984; Physics
- Yale University; Ph.D.; 1988; Chemical Engineering

Professional Experience:

1989-1992 Post doctoral fellow and later Senior Scientist in the Department of Molecular Biology, University of Southern Denmark, Denmark
1992-1998 Group leader of the Protein & Peptide Group, European Molecular Biology Laboratory (EMBL), Heidelberg
1998-2007 Professor of Bioinformatics, Department of Biochemistry and Molecular Biology, University of Southern Denmark; Director of the Center for Experimental Bioinformatics (CEBI)
Since 2005 Director at the Max-Planck Institute of Biochemistry, Martinsried, Germany
Since 2007 Additional appointment as director of the Department of Proteomics, The Novo Nordisk Foundation Center for Protein Research, Faculty of Health Sciences, University of Copenhagen, Denmark

Honors:

1991 Malcom Award by the journal Organic Mass Spectrometry
1996 Mattauch Herzog Prize in Mass Spectrometry
1997 Hewlett-Packard Prize for Strategic Research in Automation of Sample Preparation
1998 Edman Prize by the "Methods in Protein Structure Analysis" Society
1999 Bieman Medal for Outstanding Achievement in Mass Spectrometry (American Society for Mass Spectrometry)
1999 Named second most cited scientist in chemistry in the years 1994 to 1996 by the Institute of Scientific Information
1999 Elected visiting professor Harvard Medical School
1999 Elected to the European Molecular Biology Organization (EMBO)
2001 Bernhard and Matha Rasmussen's Memorial award in Cancer Research
2001 Meyenburg Cancer Research Award
2001 Fesenius Prize for Analytical Chemistry by the German Chemical Society

2004	Honorary Doctorate University Utrecht, Netherlands
2004	Lundbeck Nordic Research Prize
2004	Novo-Nordisk Prize (shared with Prof. Peter Roepstorff)
2005	Anfinsen Award of the Protein Society
2006	Biochemical Analysis Prize by the German Society for Clinical Chemistry and Laboratory Medicine
2007	Honorary Professor at The Novo Nordisk Foundation Center for Protein Research, Faculty of Health Sciences, University of Copenhagen
2007	2nd most cited European Scientist for the last ten years according to ScienceWatch (ISI)
2008	HUPO Distinguished Achievement Award in Proteomic Sciences (Shared with Prof. Denis Hochstrasser)
2010	Friedrich Wilhelm Joseph von Schelling Prize awarded by the Bavarian Academy of Sciences

Recent Editorial Board Memberships:

- Journal of Proteome Research
- Journal of Chemistry and Biology
- Protein Science
- International Journal of Mass Spectrometry
- Molecular and Cellular Proteomics
- Cell
- Carcinogenesis

Grants:

Matthias Mann is currently involved in more than 10 grants with a total departmental funding level of more than 6 M EUR. Main sources: European Union, BMBF (The German Federal Ministry of Education and Research), NIH, the German Cancer Aid and Excellence Initiative of the Federal Republic of Germany and the States of the Federal Republic of Germany via DFG (the German Research Foundation).

Publications:

Dr. Mann has authored and co-authored more than 440 publications with more than 60,000 citations according to ISI (h-factor 120), making him one of the most highly cited researchers worldwide.

Ten most important publications to date:

- 1) Wilm, M., Shevchenko, A., Houthaeve, T., Breit, S., Schweigerer, L., Fotsis, T., and Mann, M. (1996). Femtomole Sequencing of Proteins from Polyacrylamide Gels by Nano Electrospray Mass Spectrometry. *Nature* 379, 466 - 469.
- 2) Mann, M., and Wilm, M.S. (1994). Error Tolerant Identification of Peptides in Sequence Databases by Peptide Sequence Tags. *Analytical Chemistry* 66, 4390-4399.
- 3) Neubauer, G., Gottschalk, A., Fabrizio, P., Séraphin, B., Lührmann, R., and Mann, M. (1997). Identification of the proteins of the yeast U1 small nuclear ribonucleoprotein complex by Mass Spectrometry. *Proceedings of the National Academy of Sciences (USA)* 94, 385-390.

- 4) Neubauer, G., King, A., Rappsilber, J., Calvio, C., Watson, M., Ajuh, P., Sleeman, J., Lamond, A.I., and Mann, M. (1998). Mass spectrometry and EST-database searching allows characterization of the multi-protein spliceosome complex. *Nat Genet* 20, 46-50.
- 5) Ong, S.E., Blagoev, B., Kratchmarova, I., Kristensen, D.B., Steen, H., Pandey, A., and Mann, M. (2002). Stable Isotope Labeling by Amino Acids in Cell Culture, SILAC, as a Simple and Accurate Approach to Expression Proteomics. *Mol Cell Proteomics* 1, 376-386.
- 6) Blagoev, B., Kratchmarova, I., Ong, S.E., Nielsen, M., Foster, L.J., and Mann, M. (2003). A proteomics strategy to elucidate functional protein-protein interactions applied to EGF signaling. *Nat Biotechnol* 21, 315-318.
- 7) Andersen, J.S., Lam, Y.W., Leung, A.K., Ong, S.E., Lyon, C.E., Lamond, A.I., and Mann, M. (2005). Nucleolar proteome dynamics. *Nature* 433, 77-83.
- 8) Olsen, J.V., Blagoev, B., Gnad, F., Macek, B., Kumar, C., Mortensen, P., and Mann, M. (2006). Global, In Vivo, and Site-Specific Phosphorylation Dynamics in Signaling Networks. *Cell* 127, 635-648.
- 9) de Godoy, L.M., Olsen, J.V., Cox, J., Nielsen, M.L., Hubner, N.C., Frohlich, F., Walther, T.C., and Mann, M. (2008). Comprehensive mass-spectrometry-based proteome quantification of haploid versus diploid yeast. *Nature* 455, 1251-1254.
- 10) Choudhary, C., Kumar, C., Gnad, F., Nielsen, M.L., Rehman, M., Walther, T.C., Olsen, J.V., and Mann, M. (2009). Lysine acetylation targets protein complexes and co-regulates major cellular functions. *Science* 325, 834-840.